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 Washington D.C., 20231

FORM PTO-1082
 Case Docket No.: 12623-250506
 Date: August 9, 2000
 Express Mail Label No.: EL 331 912 456 US

Dear Sir:

Transmitted herewith for filing is the patent application of
 Inventor(s): THOMAS PERLMUTTER
 For: SYSTEM AND METHOD FOR ELECTRONIC ADVERTISING,
 ADVERTISEMENT PLAY TRACKING AND METHOD OF PAYMENT

Enclosed are:

- ☒ 6 Sheets(s) of Formal drawings
☒ An assignment of the invention to ADICUS MEDIA. INC.
 _____ An associate power of attorney
 _____ A verified statement to establish small entity status under 37 CFR1.9 and 1.27.
☒ Declaration and Power of Attorney.
 _____ Certified copy of Patent Application No. _____ filed _____ from which priority is
 claimed under 35 U.S.C. §110.
 _____ IDS enclosed. _____ with references.
 _____ Preliminary Amendment.

CALCULATION OF FEES					
ITEM	NO. OF CLAIMS FILED MINUS BASE*	NO. OF CLAIMS OVER BASE	X SM/LG ENTITY FEE	\$ AMOUNT	FEE
A TOTAL CLAIMS FEE	41 -20*=	21	x \$9 or x \$18	\$ 378	
B INDEPENDENT CLAIMS FEE**	8 -3*=	5	x \$39 or x 78	\$390	
C SUBTOTAL - ADDITIONAL CLAIMS FEE (ADD FINAL COLUMN IN LINES A + B)					\$768
D MULTIPLE-DEPENDENT CLAIMS FEE			SMALL ENTITY FEE = \$130 LARGE ENTITY FEE = \$260		\$
E BASIC FEE*			SMALL ENTITY FEE = \$345 LARGE ENTITY FEE = \$690		\$690
F TOTAL FILING FEE (ADD TOTALS FOR LINES C, D, AND E)					\$1458
G ASSIGNMENT RECORDING FEE				\$40	\$40
**LIST INDEPENDENT CLAIMS 1, 8, 13, 18, 22, 26, 30, 37					

_____ Please charge my Deposit Account No. \$ _____
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☒ A check in the amount of \$1458
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— Any patent application processing fees under 37 CFR 1.17.

— The issue fee set in 37 CFR 1.18 at or before mailing of the Notice of Allowance, pursuant to 37 CFR 1.311(b).

— Any filing fees under 37 CFR 1.16 for presentation of extra claims.

Respectfully submitted,

Dated: August 9, 2000



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PATENT
12623-250506

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

THOMAS PERLMUTTER

Serial No.: UNKNOWN

Filed: AUGUST 9, 2000

Group No.: UNKNOWN

Examiner: UNKNOWN

For: SYSTEM AND METHOD FOR ELECTRONIC
ADVERTISING, ADVERTISEMENT PLAY TRACKING
AND METHOD OF PAYMENT

CERTIFICATE OF MAILING VIA U.S. EXPRESS MAIL

"Express Mail" Mailing Label No. EL 331 912 456 US

Date of Deposit: August 9, 2000

Box NEW PATENT APPLICATION

Assistant Commissioner for Patents

Washington, D.C. 20231

Dear Sir:

I hereby certify that

- ☒ Letter of transmittal
- ☒ Check in the amount of \$1458 as filing fee.
- ☒ Patent application (22 pages of specification; 41 claims; 1 pages of abstract)
- ☒ 6 sheet(s) of Formal drawings
- ☒ Declaration and Power of Attorney
- ☒ Executed assignment, with Recordation Cover Letter and check in amount of \$40
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Box NEW PATENT APPLICATION

Assistant Commissioner for Patents

Washington, D.C. 20231.

August 9, 2000

Date of Deposit

Paula Dunn

Name of person mailing papers



Signature

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**APPLICATION FOR
UNITED STATES PATENT
IN THE NAME OF**

THOMAS PERLMUTTER

ASSIGNED TO

ADICUS MEDIA. INC

FOR

**SYSTEM AND METHOD FOR ELECTRONIC ADVERTISING, ADVERTISEMENT
PLAY TRACKING AND METHOD OF PAYMENT**

DOCKET NO. 12623-250506

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SYSTEM AND METHOD FOR ELECTRONIC ADVERTISING, ADVERTISEMENT PLAY TRACKING AND METHOD OF PAYMENT

BACKGROUND

5 Currently, the predominant form of advertising on the Internet is the "banner ad." A banner ad may include text or graphics, possibly animated, and is generally be displayed on a fixed portion of a webpage. Thus, as the webpage user scrolls down through the webpage, the user loses sight of the banner ad. Furthermore, as users go to various webpages, the banner ads on a particular webpage may change. Thus, if a user sees a banner ad on one webpage, visits a
10 second webpage and then returns to the first webpage, the banner ads on the first webpage at the time of the first visit will have been removed and replaced with completely different banner ads. When a banner ad is removed, generally no link to information about the sponsors product is left on the webpage. For these reasons, banner ads generally leave a minimal impression on the user/consumer.

15 In addition, there is generally little information provided to allow a banner advertising client to determine when a banner ad is being displayed, whether it was viewed by the consumer, the identity or location of the user to which the ad was displayed, etc. Therefore, banner advertising clients were generally charged according to the number of users received by the website or webpage displaying the banner ad, the size and other characteristics of the banner ad
20 itself, the frequency at which the banner ad is to appear, and the duration of time (e.g., a week, a month) over which the banner ad is to intermittently appear on the website/webpage.

 Another type of Internet advertisement in a timed advertisement, such as the SUPERSTITIAL advertisement offered by Unicast, Inc. of New York City, New York. SUPERSTITIAL advertisements consist of animation, audio and/or rich graphics files. A Web
25 user may access the website on which the SUPERSTITIAL advertisement is to be displayed. When the Web user becomes idle (i.e., their modem/connection for gathering content from the website is not being used), the SUPERSTITIAL advertisement is downloaded to the Web user's remote terminal for storage in cache memory. Downloading of the SUPERSTITIAL

advertisement may be halted if the Web user performs an action or makes a request that requires use of the modem/connection and may be restarted once the action or request is completed.

When the Web user attempts to access another webpage, the SUPERSTITIAL advertisement is played from the cache memory in a pop-up window, i.e., an advertisement window having a

- 5 separate source code from that of the main content window must be displayed on the Web user's display device. The Web user may interrupt and terminate play of the SUPERSTITIAL advertisement at any time. The operator of the website may report the number of times an ad was downloaded or launched, the number of times the Web user accessed the website of the advertising client from the advertisement and the interactivity of the Web user.

BRIEF DESCRIPTION OF THE DRAWINGS

FIGURE 1 depicts elements of a system and method for displaying an advertisement according to an embodiment of the present invention;

FIGURE 2A illustrates a sample of a main content layer that may be displayed to a user according to an embodiment of the present invention.

FIGURE 2B illustrates a sample of an advertisement layer that may be displayed to a user according to an embodiment of the present invention.

FIGURE 2C illustrates the result of displaying an advertisement layer and a main content layer according to an embodiment of the present invention.

FIGURE 3 is a flowchart depicting the process by which a user terminal may play an advertisement and transmit play tracking information according to an embodiment of the present invention.

FIGURE 4 illustrates a play tracking data record according to an embodiment of the present invention.

FIGURE 5 illustrates an advertisement record of the type that may be maintained in an advertisement medium in an embodiment of the invention.

DETAILED DESCRIPTION

The present invention relates to the playing of electronic advertisements on display devices. It describes a system and method for playing an advertisement that may incorporate video images, text, audio files and/or other media content (“advertisement content”) and charging an advertising client for the playing of such advertisements. The visual advertisement content may be played on a portion of the display device on which content other than advertisement content (“main content”) is or was being displayed. Data indicating that the advertisement was played, on which display device the advertisement was played, what main content was displayed as the advertisement was played, the start and/or end time of the playing of the advertisement, the location or identity of the viewer of the advertisement and other similar play tracking information may be centrally stored and used for billing purposes, website/webpage evaluation or rating purposes, and the like. The present invention further relates to a method whereby electronic advertising clients may be charged according to the number of times advertisements are successfully played rather than the number of times the associated website/webpage or advertising content is downloaded or launched.

FIGURE 1 depicts a network of computers that may be used to play electronic advertisements according to an embodiment of the present invention. A communication network 5 may connect a number of main content sources 7a-7c (collectively, 7), user terminals 6a-6d (collectively, 6), an advertisement source 1, an advertisement medium 8, and an advertisement play tracker 3 for the communication of messages, data or other information related to an advertisement sponsored by an advertising client 2. In embodiments of the invention, the advertisement play tracker 3 may be combined with either the advertisement source 1, one or more of the main content sources 7 or a combination thereof. Furthermore, in embodiments of the invention, the advertisement medium may not be directly connected to the communication network and may instead be accessible only through the advertisement source 1 or one or more of the main content sources 7.

The communication network **5** may be a local area network (LAN), metropolitan area network (MAN), wide area network (WAN), the Internet or any other type of computer network and may use any network implementation, including, for example, the Ethernet, ARCnet, and Token Ring implementations. Information communicated over the communication network **5** may conform to any data communications protocol, including TCP/IP, ATP, IPX/SPX, NetBios and AppleTalk. Communication network **5** may include wire line (such as twisted-pair telephone wire, coaxial cable, electric power line, optical fiber wire, leased line or the like) or wireless (such as satellite, cellular, radio frequency or the like) connections.

In an embodiment of the invention, users using browser software, such as Internet Explorer manufactured by Microsoft Corporation or Navigator manufactured by Netscape Corporation may access a website hosted by one of the main content sources **7** (typically an website or application server). The website may include several webpages, each of which may include main content in the form of video or other images for display. The user terminals **6** may include display devices (such as CRT monitor, flat-panel displays or liquid crystal displays) and the browser software operated at the user terminals **6** may execute instructions (“webpage source code”), such as an HTML instructions, JavaScript or Java applet, to cause these webpages to be displayed on the display devices.

In such an embodiment of the present invention, a main content source **7** may include within the webpage source code, instructions for playing an advertisement sponsored by an advertising client **2**. The webpage may include multiple HTML layers and the visual advertisement content **104** may be contained in a separate HTML layer (“the advertisement layer **105**”) from the HTML layer(s) containing the remainder of the webpage content **103** (the “main content layer(s) **102**”). Examples of an advertisement layer **105** and a main content layer **102** are shown in FIGS. 2A and 2B. An HTML layer, such as the main content layer **102** or the advertisement layer **105** may be displayed on a screen **101** when the visibility settings associated with these layers are set to “visible.” The z-index values of various layers may be set so as to create a stacking order. For example, the top layer in the stack may have a z-index value of 1,

the next layer 2, and so forth. The advertisement layer **105** may have a z-index value indicating that it is higher in the stack than one or all of the main content layer(s) **102**. Alternatively, the position of the advertisement layer **105** in the layer stack may be set relative to a main content layer **102**. In order to display the advertisement, the visibility setting for the advertisement layer **105** may be changed to “visible,” producing the image shown in FIG. 2C. Similarly, to stop displaying the advertisement, the visibility setting for the advertisement layer **105** may be reset to “invisible.”

The visual advertisement content **104** may be displayed in a portion of the advertisement layer that is smaller than the entire screen area. In an embodiment of the invention., the advertisement layer **105** may be clipped so as to conform to the size of the visual advertisement content **104**. Alternatively, where the size of the visual advertisement content **104** may change from advertisement to advertisement or within a single advertisement, the advertisement layer **102** may have an area substantially equal to the area of the screen **101** and the portions of the advertisement layer **102** that do not contain visual advertisement content **104** may be set to be transparent. The portion of the advertisement layer that corresponds to the visual advertisement content **104** may be characterized as “opaque,” preventing access to the portions of the main content layer(s) **102** directly underneath the visual advertisement content **104**. For example, as shown in FIG. 2A, the main content layer may contain embedded links to other webpages or websites. Where the advertisement layer **105** contains visual advertisement content **104** that is opaque and the visual advertisement content **104** is displayed over a portion of a main content layer **102** containing embedded links, as shown in FIG. 2C, the user may be unable to activate the covered links.

An advertisement source **1** may receive from an advertising client **2** information related to the advertisement to be played. The information may include visual or audio advertisement content (such as video image or audio clip files), information identifying the advertising client **2**, characteristic information for the advertisement (e.g., the duration of the commercial, the desired number of times for the advertisement to be played, characteristics of the advertisement’s target

audience, sites on which the advertisement is to be played, and the like). In an embodiment of the invention, the advertisement source **1** may provide the advertising client **2** with software with which to create the advertisement and the information sent by the advertising client **2** to the advertisement source **1** may include the created advertisement. Alternatively, the advertisement source **1** may collect content components of the advertisement from the advertising client **2** and create the advertisement from these components or the advertisement source **1** may create the advertisement content components based on more basic information (e.g., product name, company name, product type, etc.) submitted by the advertising client **2**. The advertisement source **1** may supplement the information submitted by the advertising client **2** with identification or registration information (e.g., a unique identification code or a registration code) or the like. The information submitted by the advertising client **2** and any supplemental information provided by the advertisement source **1** may be used to create an advertisement record to be stored in the advertisement medium **8**. An example of an advertisement record according to an embodiment of the present invention is provided in FIG. 5.

Although the advertising client **2** and the advertisement source **1** are shown in FIG. 1 as directly linked, a person of ordinary skill in the art would readily understand that, in other embodiments of the invention, information sent by the advertisement source **1** to the advertising client **2** or vice versa may be transmitted over the communication network **5**. Advertisement creation software and advertisement-related information may also be delivered on physical storage media such as floppy disks, CD-ROMs, flash memory and the like, or downloaded by the advertising client **2** from the advertising registrar **1** through the communication network **5**.

An advertisement may include computer readable content files, such as a video image file (e.g., a GIF or MPEG file), an audio clip file (e.g., a MIDI file), a still image file (e.g., a JPEG file), a text file, and the like. The advertisement may also be associated with execution instructions (“play script”) to cause a user terminal **6** to display the advertisement at a predetermined time or upon the occurrence of a predetermined play triggering event (e.g., completion of the downloading of advertisement content, elapse of a period of time, user

initiation of access to a different webpage or website, detection of an error or idle condition, a combination thereof, or the like). Similarly, the play script may cause the advertisement to be removed from display upon the occurrence of a predetermined removal triggering event. The play script may be in the form of a JAVA applet, an HTML instructions or the like. The

5 execution instructions may also cause the advertisement to be removed from the display of a user terminal 6 at a predetermined time or upon the occurrence of a predetermined event, such as the detection of an error in playing the advertisement. The play script may include or cause to be created a timeline indicating the starting time and/or ending time for playing of the advertisement, starting and/or ending time of downloading an advertisement to the user terminal 10 6, the displaying and/or removal of the advertisement layer or the transmission of a play tracking message.

In an alternative embodiment of the invention, a play script for an advertisement may be incorporated into instructions for display of the main content (e.g., the webpage source code) associated with the advertisement to be played, creating a unified play script. Like a play script 15 in an embodiment of the invention in which the display of the main content and the play of the advertisement are controlled by separate sets of instructions, the unified play script may include instructions for downloading an advertisement, playing an advertisement, removing an advertisement from display, recording play tracking information and transmitting a play tracking message. In an embodiment of the invention, the play script or unified play script may direct the 20 user terminal to retrieve the advertisement content from a location in the advertisement medium 8. To direct the terminal to different advertisements, the location in the advertisement medium 8 may be fixed and the advertisement or advertisement content associated with the location may be changed, or alternatively, the location in the advertisement medium 8 may be changed. The advertisement to which the terminal is directed may be changed periodically or may be changed 25 based on play tracking data instructions from the advertisement source 1, user- or user-terminal related information (e.g., the ZIP code of the internet service provider through which the user terminal 6 is establishing its connection to the main content source 7), or webpage-related

information (e.g., a general webpage topic). In embodiments in which a unified play script is used, multiple advertisements may be downloaded to a user terminal 6 without requiring reloading of the entire webpage.

A play script or unified play script may also, for example, include information as to the placement of the advertisement on a display device associated with the user terminal (e.g., a CRT screen, flat-panel display, liquid crystal display or the like). In an embodiment of the invention, a play script or unified play script may also include a timeline according to which various advertisement-related events are to occur. For example, the timeline may indicate times at which an advertisement is to be downloaded, played and/or removed from display, or when a play tracking message is to be transmitted.

The advertisement source 1 or main content source 7 may also include instructions in the play script or unified play script directing a user terminal 6 to record information regarding playing of the advertisement. The recorded information may include the time at which playing of the advertisement started and/or ended, the time at which the advertisement layer was made visible and/or invisible, the identification code associated with the advertisement and information related to the webpage or website on which the advertisement was viewed (such as the Uniform Resource Locator associated with the webpage), and/or similar information. The recorded information, or a portion thereof, may be transmitted as a play tracking message to a advertisement play tracker 3. In alternative embodiments of the invention, a tracking message may first be sent to a main content source 7 associated with the webpage or website on which the advertisement was played and the tracking message (or information related to one or more such tracking messages) may subsequently be transmitted to the advertisement play tracker 3. For example, a main content source 7 may receive a number of tracking messages within a specified period of time and, at the end of the specified period, send another tracking message to the advertisement play tracker 3 including aggregated play information (e.g., the total number of times the advertisement was played during the specified period) based on the information in the individual tracking messages received by the main content source 7 from the user terminals 6.

The tracking messages may be transmitted by the user terminal **6** after each playing of an advertisement, after the playing of a specified number of advertisements, upon the occurrence of a specified event (e.g., the user terminal discontinuing access to the webpage or website), upon the passage of a specified period of time, or the like.

FIG. 3 is a flowchart of a process by which a user terminal **6** may display an advertisement and collect and transmit play tracking information according to an embodiment of the present invention. As shown in block **201**, main content, advertisement content and a play script may be transmitted to the user terminal **6** from one of the main content sources **7**, the advertisement source **1**, or a combination thereof. Once the play script has been transmitted to the user terminal **6**., the user terminal **6** may begin to execute the instructions in the play script, as shown in block **202**. In an embodiment of the invention, the user terminal **6** may receive the play script and begin executing it before receiving the advertisement content. The play script may direct the user terminal **6** to retrieve the advertisement content from the advertisement source **1** or the main content source **7** and may provide information (such as file locations, passwords, and advertisement identification information) for the user terminal **6** to use in retrieving the advertisement content.

If the user terminal determines that a play triggering condition has been satisfied in block **203**, the user terminal may begin collecting play tracking information and cause the advertisement to be displayed (as shown in blocks **204** and **205**). The play triggering condition may be specified in the play script. Play tracking information may include the start and end time of play of the advertisement, whether the advertisement was successfully played to completion, information related to user interaction with the user terminal during the playing of the advertisement, and the like. Some elements of play tracking information, such as the geographical location of the terminal, may be collected and transmitted to the main content source **7**, the advertisement tracker **3** or the advertisement source **1** prior to playing of the advertisement and may be used in the process of selecting advertisement content to be transmitted to the user terminal.

When the advertisement is being played, the user terminal **6** will continue play until determining that a removal triggering condition has been satisfied (block **206**). Upon satisfaction of the removal triggering condition, the user terminal **6** may terminate play of the advertisement, remove visual advertisement content from the display and stop collecting play tracking information (as shown in blocks **207** and **208**). The removal triggering condition may be specified in the play script. The removal triggering condition may be the passage of a specified length of time from the advertisement play start time, the detection of an error condition in the user terminal **6** display functions, or the like (or some combination thereof). The user terminal may then process the play tracking information and transmit it to the main content source **7**, the advertisement play tracker **3** and/or the advertisement source **1**. The user terminal **6** may transmit play tracking information periodically or after each advertisement playing.

An advertisement may be randomly selected for play on a particular user terminal **6**. Alternatively, advertisements may be classified according to target audience, play frequency, price range and the like and selected for play based on the selection criteria corresponding to the classification information. The main content source may determine the order in which advertisements will be played with the display of main content for its website/webpage. A play schedule may be automatically created based on a total number of times the advertisement is to be played with the main content.

The advertisement play tracker may store tracking information related to the information contained in the tracking messages it receives from user terminals **3**, main content sources **7**, a combination thereof, or similar tracking information sources. The tracking information may be stored in an advertisement tracking medium **4** in the form of database records. A sample database record is shown in FIG. 4. The advertisement identification element **301** may contain information identifying the advertisement with which the tracking information contained in the record is associated. This information may include the advertisement's unique identification code, the name of the advertising client **2**, an advertising account number, and/or the like. Main content source information element **302** may include information related to one or more main

content sources 7 that have played or will play the advertisement. As shown in FIG. 3, main content source information element may include the Uniform Resource Locator (URL) of a webpage on which the advertisement was played. The main content source information element 302 may also include information related to the target audience of each of the main content sources 7. Play information element 303 may contain information as to a single playing of an advertisement or may contain aggregated information as to all plays of an advertisement associated with a main content source(s) 7 identified in main content source information element 302 for a particular time period. Play information may be categorized by main content source. The play information element 7 may include play information related to play conditions set by the advertising client 2 and/or advertisement source 1. For example, play information element 303 may include information limiting playing of the advertisement to daytime hours or targeting an audience, e.g. female users or user within a particular geographical region. Rate information element 304 may contain information related to the advertising rate charged for playing an advertisement on a website operated by the main content source(s) 7 identified in main content source information element 302. Charge element 305 may indicate the charge to be assessed to the advertising client 2 based on predetermined advertising rates associated with each of the main content sources 7. the charge may be calculated per playing event or for a specified time period. The charge may also be calculated separately for each main content source.

Once the advertisement has been created and submitted to the advertisement source 1, the advertisement source 1 may tag the advertisement with a unique identification code, such as an alphanumeric code. The identification code, or a portion thereof, may indicate the identity of the advertising client 2 or the product being advertised, the date or time period in which the advertisement is to be played, and other similar information. Alternatively, the identification code, or a portion thereof, may be randomly generated. In an alternative embodiment, software distributed by the advertisement source 1 to an advertising client 2 may automatically tag the advertisement with the unique identification code and incorporate play tracking message transmission instructions into the play script.

The advertising source 1 may also tag the advertisement with a registration code. The advertisement may be tagged with a registration code after the advertising client has agreed to terms and conditions of playing of the advertisement, after the advertisement content has been examined to ensure that it contains appropriate material, after the advertising client made an initial payment, after an account has been set up for the advertising client, or the like. A main content source 7 may determine whether an advertisement has been tagged with the proper registration code before allowing advertisement content associated with the advertisement to be downloaded to a user terminal 6 displaying the main content for its webpage/website. In this way, the registration code may be used to ensure that unauthorized advertisements are not played using the system of the present invention.

Moreover, the advertisement source 1 may tag the advertisement with an expiration code. The expiration code may be a binary flag indicating whether the advertisement is still available for play. The expiration flag may be set to indicate that the advertisement is not available for play after the advertisement has been played a desired number of times or for a desired period of time, if the advertising client is delinquent in payment of charges to its account, or under similar circumstances. As discussed with respect to the registration code, the main content source 7 may check to ensure that the expiration code indicates that the advertisement is available for play before allowing advertisement content associated with the advertisement to be downloaded to a user terminal 6 displaying the main content for its webpage/website.

FIG. 5 illustrates a record associated with an advertisement that may be maintained in the advertisement medium according to an embodiment of the invention. The record for an advertisement, or a portion thereof, may be made accessible to a main content source 7 if the advertisement is to be played in association with main content from the main content source 7. The record may include an advertisement identification element 401 containing information from which the advertisement may be identified, such as an identification code. The identification code or other information contained in the advertisement identification element may be unique and may be used in play tracking. An advertising client information element 402 may include

the name of the advertising client **2**, an account number associated with the advertising client **2**, contact information for the advertising client **2**, and the like. The advertisement data element **403** may contain computer readable advertising content files or may list the name or location of such files. The files may be in Graphics Interchange Format (GIF), Portable Network graphic (PNG), Moving Picture Experts Group (MPEG), Joint Photographic Experts Group (JPEG), or other video, graphic and/or audio file formats.

Main content information element **404** may indicate the source of the main content with which the advertisement is to be played. In an embodiment of the invention, the main content information element may contain the URL(s) for one or more websites or webpages. A product information element **405** may identify the product or service that is the subject of the advertisement. In an embodiment of the invention, product information may be included in the advertising client information element **402** and the record need not include a separate product information element **405**. A advertisement duration information element **406** may contain information indicating the run time of the advertisement. The information contained in the advertisement duration element **406** may be used to create instructions or set a timeline in a play script or unified play script to control events such as the displaying and removal of the visual advertisement content. In an embodiment of the invention, the instructions for removing the advertisement from display may cause the advertisement to be removed from display a specified amount of time (based on the advertisement's duration) after the advertisement is first displayed or playing of the advertisement begins. In such an embodiment, the advertisement may be removed from display automatically (i.e., without action by the user) even if an error occurs in the middle of playing the advertisement. In an alternative embodiment, the instructions for removal of the advertisement from display may cause the advertisement to be removed from display after the advertisement has finished playing.

A play schedule information element **407** may contain information related to the number of times the advertisement is to be played. The information may be categorized according to main content source, conditions of play, time period and the like. The play schedule information

element **407** may contain a file (or the location or name of a file) containing the play schedule for one or more advertisements. The play schedule information element **407** may contain a count of the number of times the advertisement is to be played. Such a count may be decremented as play tracking information verifying plays successful plays of the advertisement is received.

5 A record may also include a play condition information element **408**. The play condition information element **408** may contain information about the conditions under which the advertising client wishes to have the advertisement played. For example, the advertising client may specify a time of day, target audience, type of main content source, user terminal ZIP code range or other similar play condition. In an embodiment of the invention, play condition
10 information contained in the play condition information element **408** may be used by the advertisement source to determine to which main content sources the advertisement should be distributed or access to the advertisement should be allowed. For example, if the play condition information element **408** contains target audience information indicating that the advertising client **2** is seeking a female target audience, the advertisement source may distribute the
15 advertisement to main content sources **7** administering content oriented toward a female target audience. Play tracking information may also be used for other purposes, e.g., rating websites according to the amount of time spent by visitors viewing a particular webpage.

While the description above refers to particular embodiments of the present invention, it should be readily apparent to people of ordinary skill in the art that a number of modifications
20 may be made without departing from the spirit thereof. The accompanying claims are intended to cover such modifications as would fall within the true spirit and scope of the invention. The presently disclosed embodiments are, therefore, to be considered in all respects as illustrative and not restrictive, the scope of the invention being indicated by the appended claims rather than the foregoing description. All changes that come within the meaning of and range of equivalency of
25 the claims are intended to be embraced therein.

CLAIMS

What is claimed is:

1. An system for displaying an electronic advertisement having advertisement content, said system comprising:
 - 5 a communication network;
 - a terminal having a display device, said terminal configured to receive information through said communication network; and
 - a content source configured to transmit main content and a play script to said terminal through said communication network; wherein
 - 10 execution of said play script by said terminal controls the play of said advertisement and the display of said main content by said display device.
2. The system of claim 1, wherein said content source is further configured to transmit said advertisement content to said terminal through said communication network.
3. The system of claim 1, further including an advertisement source configured to transmit said advertisement content to said terminal through said communication network.
4. The system of claim 1, further including an advertisement source configured to transmit said advertisement content to said content source through said communication network.
5. The system of claim 1, further wherein said terminal is configured to display said advertising content over a portion of said main content.
6. The system of claim 1, further wherein said terminal is configured to display said advertising content upon the occurrence of a play triggering event.

7. The system of claim 1, further wherein said terminal is configured to remove said advertising content from display upon the occurrence of a removal triggering event.

8. A system for displaying an electronic advertisement having advertisement content, said system comprising:

a communication network;

a terminal having a display device and browser software; and

a Web server configured to transmit main content and said advertisement content to said terminal through said communication network; wherein

said main content is displayed in a first display layer of a window, and

said advertising content is displayed in a second display layer of said window.

9. The system of claim 8, further wherein said terminal is configured to execute a single source code to control the play of said advertisement and the display of said main content.

10. The system of claim 8, further wherein the terminal is configured to prevent user access to a portion of said first layer upon the display of said advertising content in said second display layer.

11. The system of claim 8, further wherein said terminal is configured to display said advertising content upon the occurrence of a play triggering event.

12. The system of claim 8, further wherein said terminal is configured to remove said advertising content from display upon the occurrence of a removal triggering event.

13. A system for playing an electronic advertisement having advertisement content, said system comprising:

a communication network;

a terminal having a display device and browser software;

5 a Web server configured to transmit main content to said terminal through said communication network; and

an advertisement server configured to transmit said advertisement content to said terminal through said communication network, wherein

said main content is displayed in a first display layer of a window, and

10 said advertising content is displayed in a second display layer of said window.

14. The system of claim 11, further wherein said terminal is configured to execute a single source code to control the play of said advertisement and the display of said main content.

15 15. The system of claim 11, further wherein the terminal is configured to prevent user access to a portion of said first layer upon the display of said advertising content in said second display layer.

16. The system of claim 11, further wherein said terminal is configured to display said
20 advertising content upon the occurrence of a play triggering event.

17. The system of claim 11, further wherein said terminal is configured to remove said advertising content from display upon the occurrence of a removal triggering event.

18. A method for playing an electronic advertisement having advertisement content on a user terminal having a display device, said method comprising:

transmitting main content, said advertisement content and a unified play script to said user terminal over a communication network; and

by said user terminal, executing said play script to control the playing of said advertisement and the display of said main content.

19. The method of claim 18, further including displaying said advertising content upon the occurrence of a play triggering event.

20. The method of claim 18, further including removing from display said advertising content upon the occurrence of a removal triggering event.

21. The method of claim 18, further including, by said user terminal, preventing a user operating said user terminal from accessing said main content when said advertisement content is being displayed.

22. A system for calculating a charge to be assessed to an advertising client for the playing of an electronic advertisement, said system comprising:

a communication network;

a computer having a computer readable storage medium; and

a terminal having a display device, said terminal configured to collect play tracking information and to transmit said play tracking information to said computer through said communication network, wherein

said computer readable storage medium is encoded with advertising rate information and play tracking information.

23. The system of claim 22, further wherein said computer is configured to transmit a bill indicating said charge to said advertising client.

24. The system of claim 22, further wherein said computer is configured to periodically calculate said charge based on said advertising rate information and said play tracking information.

25. The system of claim 22, further wherein said computer is configured to calculate said charge based on said advertising rate information and said play tracking information for each playing of said advertisement.

26. A method for charging an advertising client for playing of an advertisement on a user terminal, the method comprising:

by said user terminal, collecting play tracking information for a playing of said advertisement;

by said user terminal, transmitting said play tracking information to a play tracking computer;

by said play tracking computer, calculating a charge based upon said play tracking information.

27. The method of claim 26, further including transmitting a bill indicating said charge to said advertising client.

28. The method of claim 26, further wherein said play tracking computer calculates said charge periodically.

29. The method of claim 26, further wherein said play tracking computer calculates said charge for each playing of said advertisement.

30. A method for playing an electronic advertisement having advertisement content on a user terminal having a display device, said method comprising:

transmitting main content, said advertisement content and a play script to said user terminal over a communication network;

verifying a code associated with said advertisement before said advertisement can be played; and

by said user terminal, executing said play script to control the playing of said advertisement and the display of said main content.

31. The method of claim 30, wherein said code is a registration code.

32. The method of claim 30, wherein said code is an expiration code.

33. The method of claim 30, wherein said code is an identification code.

34. The method of claim 30, further including displaying said advertising content upon the occurrence of a play triggering event.

35. The method of claim 30, further including removing from display said advertising content upon the occurrence of a removal triggering event.

36. The method of claim 30, further including, by said user terminal, preventing a user operating said user terminal from accessing said main content when said advertisement content is being displayed.

37. A computer readable medium having computer executable instructions encoded thereon, said instructions for:

retrieving advertising content associated with an electronic advertisement and main content associated with a main content source;

displaying main content on a terminal having a display device;

detecting the occurrence of a play triggering event;

playing said electronic advertisement on said terminal upon the occurrence of said play triggering event; and

removing said electronic advertisement from display on said terminal.

38. The computer readable medium of claim 37, said computer executable instructions further for collecting play tracking information.

39. The computer readable medium of claim 37, said computer executable instructions further for disabling user access to a portion of said main content during playing of said advertisement on said terminal.

40. The computer readable medium of claim 37, said computer readable instructions further for detecting the occurrence of a removal triggering event and wherein said electronic advertisement is removed from display on said terminal upon the occurrence of said removal triggering event.

ABSTRACT

The present invention relates to a system and method for playing electronic advertisements in conjunction with other content deliverable through a communication network.

The present invention is further directed to a method and system for tracking playing of an

- 5 advertisement and using the play tracking information to determine the amount to be charged to an advertising client. In embodiments of the invention, the advertisement may be played upon the occurrence of a triggering event and removed from display to a viewer upon the occurrence of another triggering event. According to an embodiment of the present invention, playing of an advertisement may limit a viewer's access to other displayed content.

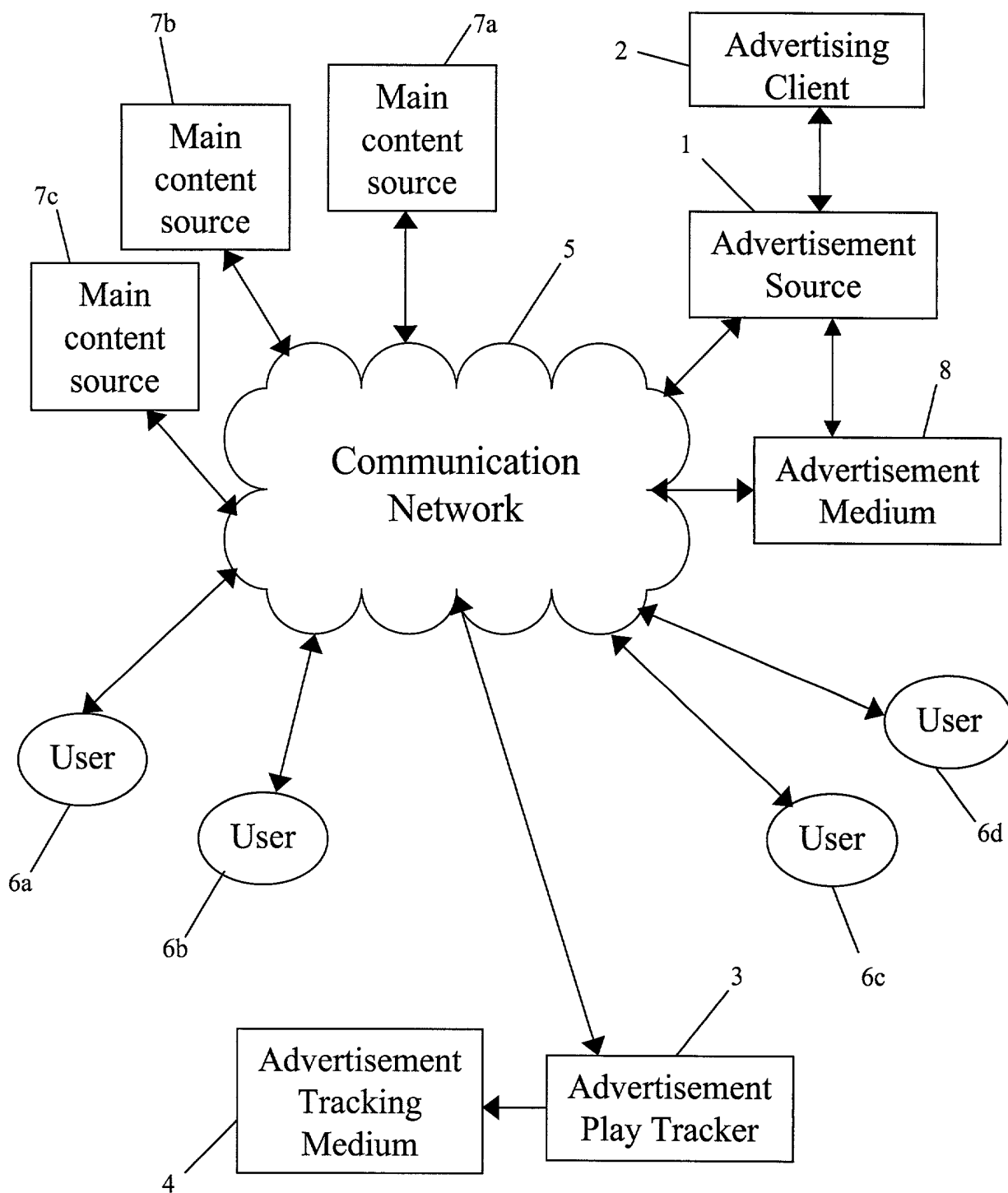


FIGURE 1

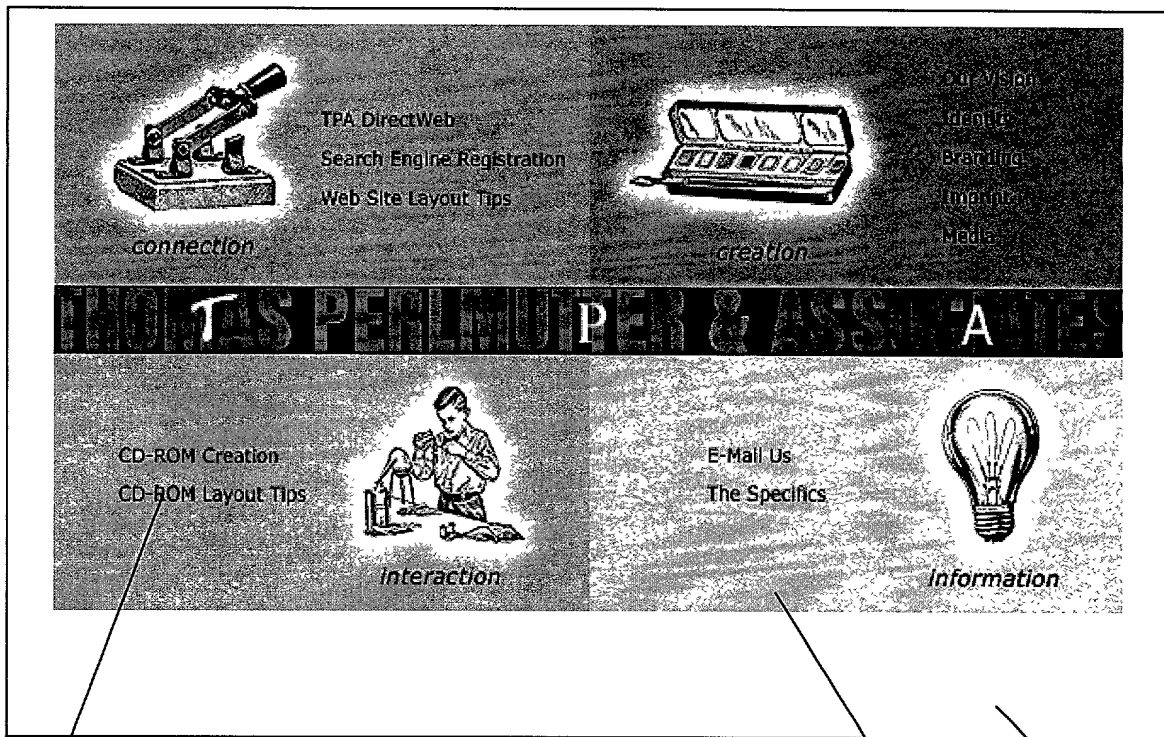


FIGURE 2A

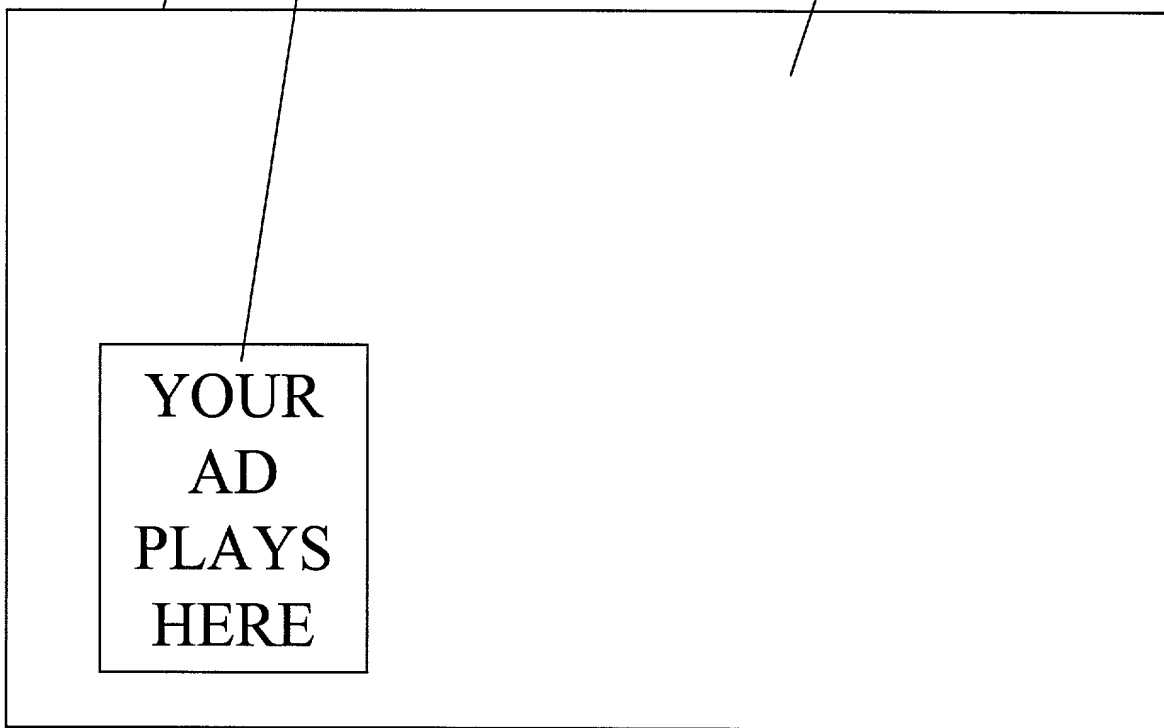


FIGURE 2B

005030" 6T 24E 26C

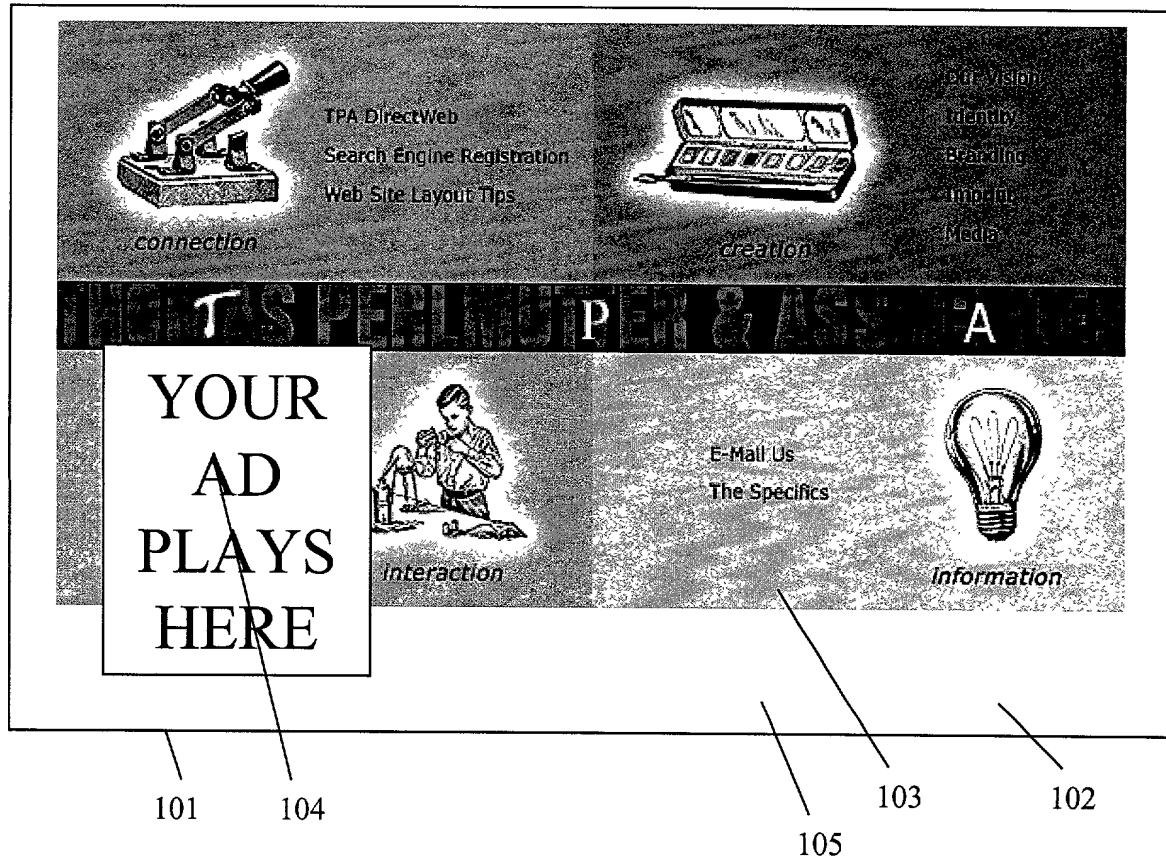


FIGURE 2C

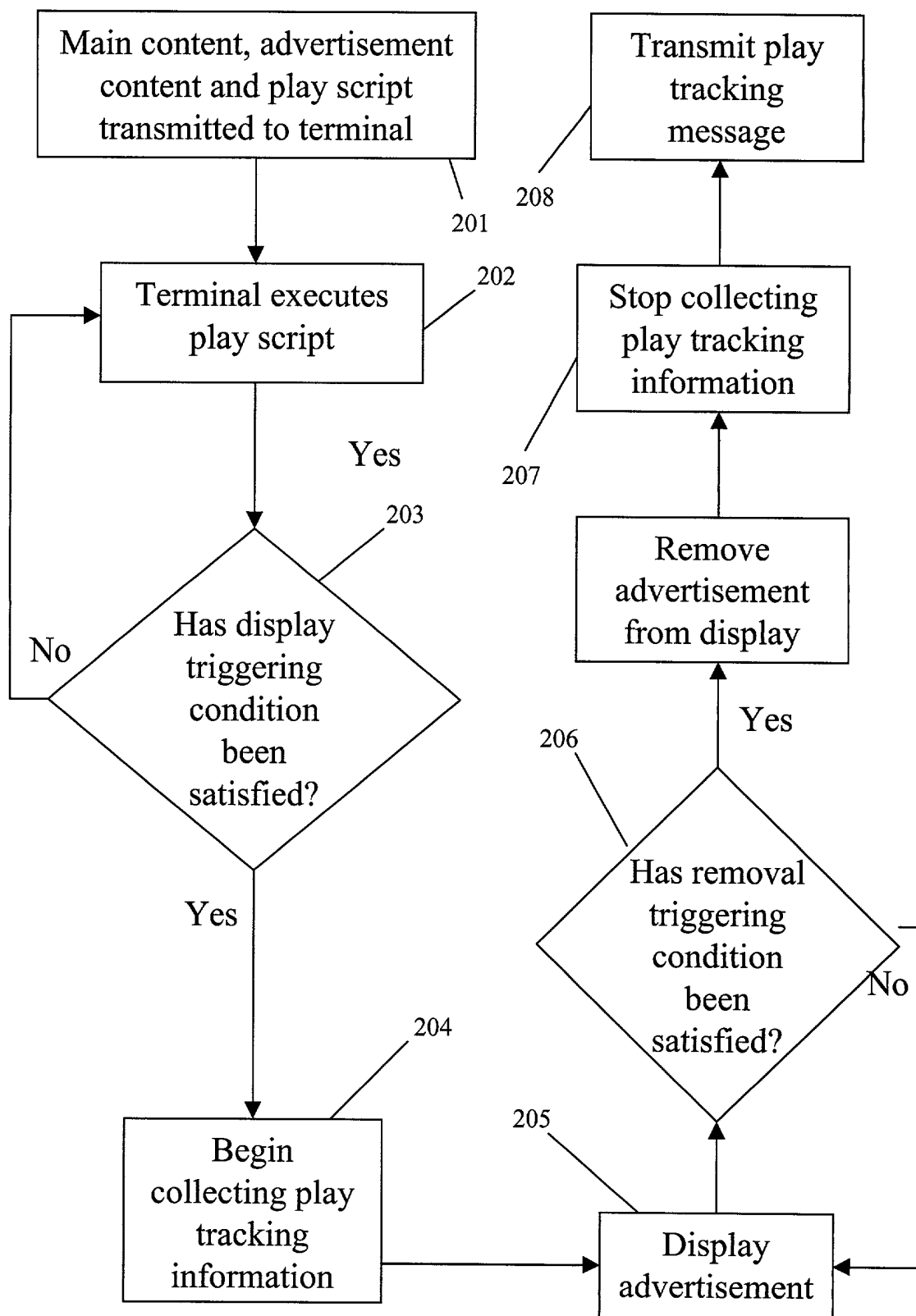


FIGURE 3

ABC12345	301
http://www.website1.com http://www.website2.com	302
Website1 - 11:26:07 PM 6/7/89 Website2 - 11:26:37 PM 6/7/89 . . .	303
Website1 - \$1/1,000 plays Website2 - day - \$1/1,000 plays Website2 - night - \$1/2,000 plays	304
Website1 - \$5.25 Website2 - \$1.33	305

FIGURE 4

ABC12345	401
Account # 13579	402
advertisement.gif	403
http://www.content_source.com	404
Advertised product	405
30 seconds	406
300,000 random plays	407
Daytime Audience	408

FIGURE 5

**DECLARATION
and POWER OF ATTORNEY**

☒ ORIGINAL
☐ CONTINUATION
☐ DIVISIONAL

As a below named inventor, I declare that the information given herein is true, that I believe that I am the original, first and sole inventor if only one name is listed at 1 below, or a joint inventor if plural inventors are named below at 1-4, of the invention entitled:

SYSTEM AND METHOD FOR ELECTRONIC ADVERTISING, ADVERTISEMENT PLAY TRACKING AND METHOD OF PAYMENT

Which is described and claimed in:

- ☒ the attached specification or
☐ the specification in application Serial No. _____
☐ as amended on _____

and for which a patent is sought, and that my residence, post office address and citizenship are as stated below next to my name.

I acknowledge my duty to disclose information which is material to the examination of this application in accordance with Title 37, Code of Federal Regulations §1.56(a).

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above.

I hereby claim foreign priority benefits under Title 35, United States Code, §119 of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application on which priority is claimed:

PRIOR FOREIGN APPLICATION(S)

COUNTRY	APPLICATION NUMBER	DATE OF FILING Month/Day/Year	PRIORITY CLAIMED UNDER 35 U.S.C. 119	
			Yes	No
			Yes	No

I hereby claim the benefit under title 35, United States Code, Section 119(e) of any United States provisional application(s) listed below

APPLICATION NO. _____ Date _____

I hereby claim the benefit under Title 35, United States Code, Section 120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code, Section 112, I acknowledge the duty to disclose all information known to me to be material to patentability as defined in Title 37, Code of Federal Regulations, Section 1.56 which became available between the filing date of the prior application and the national or PCT international filing date of this application:

APPLICATION NO. _____

Status – (patented,
pending, abandoned)


I hereby appoint

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	(City) (State)		
	Post Office Address:		
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	Residence:		Citizenship:
	(City) (State)		
	Post Office Address:		

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

 SIGNATURE OF INVENTOR 1	 SIGNATURE OF INVENTOR 2
DATE 8-8-00	DATE

SIGNATURE OF INVENTOR 3	SIGNATURE OF INVENTOR 4
DATE	DATE

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